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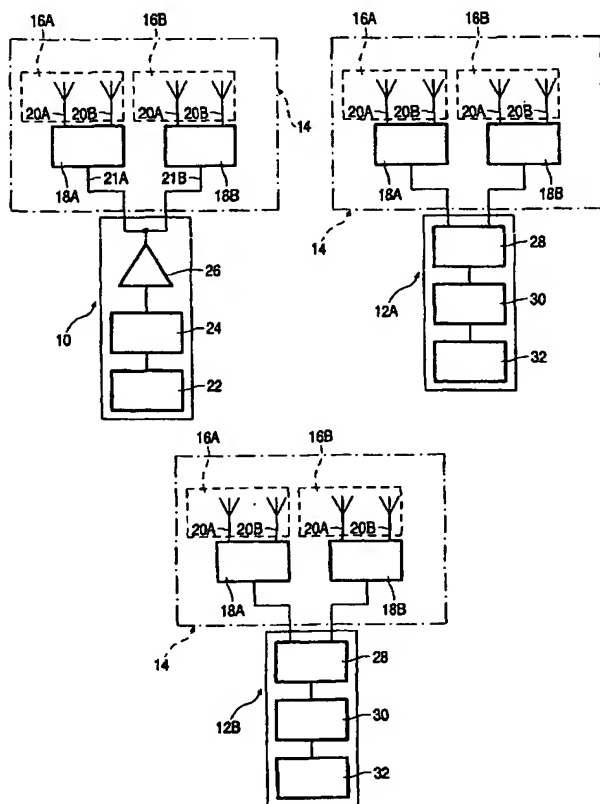
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(54) Title: IMPROVEMENTS IN OR RELATING TO MULTIPLE TRANSMISSION CHANNEL WIRELESS COMMUNICATION SYSTEMS



(57) Abstract: A multiple transmission channel wireless communication system such as MIMO system, comprises a transmitting station and at least one receiving station, at least one of said stations having an antenna system comprising a plurality of spaced apart antenna elements (16A, 16B), each antenna element comprising a sub-array of at least 2 antennas (20A, 20B) separated by less than half the wavelength of the frequency of interest. The antennas of each of the antenna elements may be controllable to give directional propagation or reception.



Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,  
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,  
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GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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## INTERNATIONAL SEARCH REPORT

National Application No

PC 03/03010

A. CLASSIFICATION OF SUBJECT MATTER  
 IPC 7 H04B7/10 H01Q21/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 1 050 923 A (LUCENT TECHNOLOGIES INC) 8 November 2000 (2000-11-08) column 2, line 36 - line 41 column 3, line 12 - line 15 column 4, line 36 - line 58	1-14
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☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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